



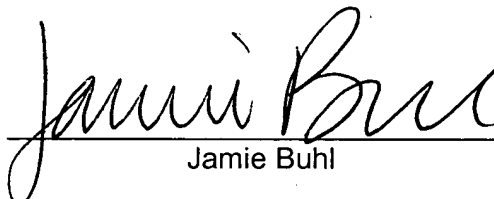
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: J Helen Fitton, Charles Dragar
Title of Invention: **EXTRACTS FROM THE MARINE ALGAE UNDARIA,
COMPOSITIONS THEREOF AND METHODS OF USE**
Serial No.: 10/611,370
Filing Date: June 30, 2003
Attorney Dkt. No.: 2263-1-3

Certificate of Mailing

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Jamie Buhl

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97

TO THE COMMISSIONER FOR PATENTS:

In compliance with the duty of disclosure under 37 CFR § 1.56, Applicant submits herewith patents, publications, or other information for consideration during the examination of this application.

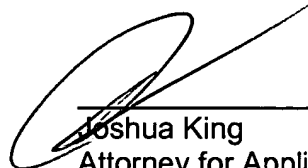
In accordance with 37 CFR § 1.97, the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made nor that the information cited in the statement is or is considered to be "material" to patentability as defined in 37 CFR § 1.56(b).

X Charge any additional fees to Deposit Account No. 07-1897

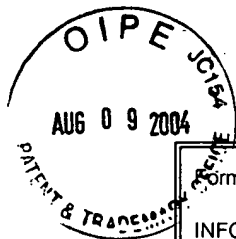
X A postcard as acknowledgement of receipt of Form PTO-1449 and copies of the documents cited in the attached form are enclosed.

Respectfully submitted,

GRAYBEAL JACKSON HALEY LLP

A handwritten signature in black ink, appearing to read 'Joshua King', is written over a horizontal line.

Joshua King
Attorney for Applicant
Registration No. 35,570
155-108th Avenue N.E., Ste 350
Bellevue, WA 98004-5973
(425) 455-5575



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional) 2263-1-3	Application Number 10/611, 370
	Applicant(s) J. Helen Fitton, et al.	
	Filing Date June 30, 2003	Group Art Unit 1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Barton, Simon E., et al., The Clinical Management of Recurrent Genital Herpes: Current Issues and Future Prospects, Herpes: 9(1), 15-20 (2002).
	Black, W.A.P., et al., Manufacture of Algal Chemicals, J Sci Food Agric, 122-129 (1952).
	De Clercq, Erik, et al., Antiviral Drugs: Current State of the Art, J Clinical Virology, 22, 73-89 (2001).
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	Hudson, J. B., et al., Aniviral Compounds in Extracts of Korean Seaweeds: Evidence for Multiple Activities, J. Appl. Phycology, 10, 427-434 (1999).
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	Itoh, Hiroko, et al., Antitumor Activity and Immunological Properties of Marine Algal Polysaccharides, Especially Fuoidan, Prepared From Sargassum Thunbergii of Phaeophyceae, Anticancer Res, 13(6), 2045-52 (1993).
	Koo, Jae-Geun, et al., Isolation and Purification of Fuciodans from Laminaria Religiosa and Undaria Pinnatifida in Korea, J. Korean Fish Soc., 28(2), 227-236 (1995).
	Liu, Ting, et al., Gamma Interferon Can Prevent Herpes Simplex Virus Type 1 Reactivation from Latency in Sensory Neurons, J. Virol., Nov., 75(22), 11178-11184 (2001).
	Maruyama, Hiroko, et al., Antitumor Activity and Immune Response of Mekabu Fuciodan Extracted from Sporophyll of Undaria Pinnatifida, In Vivo, 17(3), 245-249 (2003).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
		Mori, H., et al., Sugar Constituents of Some Sulphated Polysaccharides From the Sporophyllis of Wakame (Undaria Pinnatifida) and Their Biological Activities, Marine Algae in Pharmaceutical Science, Vol. 2, 109-121 (1982).				
		Naesens, Lieve, et al., Recent Developments in Herpesvirus Therapy, Herpes, 8(1), 12-16 (2001).				
		Nahmias, Andre. J, et al., Sero-epidemiological and -sociological Patters of Herpes Simplex Virus Infection in the World, Scand. J. Infect. Dis Support, 69, 19-36 (1990).				
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		Preeprame, Srisomporn, et al., A Novel Antivirally Active Fucan Sulfate Derived From an Edible Brown Alga, Sargassum Horneri, Chem. Pharm. Bull., 49(4), 484-485 (2001).				
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		Thompson, K.D., et al., Antiviral Activity of Tasmanian Seaweed Extracts Against Clinical Strains of Herpes Simplex Virus (HSV), Abstract, 18 th Annual Clinical Virology Symposium, April 28-May 1, Florida 2002.				
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation <div>YESNO</div>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
		Vollstedt, Sabine, et al., Interleukin-12- and Gamma Interferon-Dependant Innate Immunity Are Essential and Sufficient for Long-Term Survival of Passively Immunized Mice Infected with Herpes Simplex Virus Type 1, J Virol, 75(20):9596-600 (2001).				
		Witvrouw, M., et al., Sulfated Polysaccharides Extracted From Sea Algae as Potential Antiviral Drugs, Gen Pharmacol, 29; 497-511 (1997).				
		Zeitlin, Larry, et al., Microbicides for Preventing Transmission of Genital Herpes, Herpes, 9(1): 4-9 (2002).				
		Zhu, Wen, et al., Isolation and Characterization of a Sulfated Polusaccharide From the Brown alga Sargassum Patens and Determination of its Anti-Herpes Activity, Biochem Cell Biol., 81(1), 25-33 (Feb. 2003).				
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